Exercise	1	2	Total
100%	5	-	5
Points			

Name: Stellar Astrophysics

Homework - Lecture 16 - The Sun Due date: November 3rd

1 Mass loss of the Sun

- 1. At what rate is the Sun's mass decreasing due to nuclear reactions? Expres your answer in solar masses per year.
- 2. Compare your answer to part (1) with the mass loss rate due to the solar wind
- 3. Assuming that the solar wind mass loss rate remains constant, would either mass loss process significantly affect the total mass of the Sun over its entire main-sequence lifetime?

Look into Chapter 11 in Carroll & Ostlie in case you have problems with this exercise.

2 Short homework

You wonder why this homework is so short? Use the time you saved to

go and vote!